

WHAT IS CLAIMED IS:

1 1. An evaporative cooler housing for attachment to a building,
2 the housing comprising:
3 a front panel;
4 a one piece rear panel having a first and second region and
5 an extension portion intermediate and extending away from the first and
6 second regions in a direction away from the front panel, the extension
7 portion including a first and second flange substantially perpendicular to
8 the first and second regions and further including an output region
9 substantially perpendicular to the first and second flanges and
10 substantially parallel to the first and second regions;
11 a first and second louver extending between the front panel
12 and first and second regions of the rear panel respectively.

1 2. The apparatus of claim 1, wherein the first and second
2 regions of the rear panel includes a top edge and an opposing bottom,
3 edge, the first and second flanges of the extension portion extending at
4 least the majority of the distance between the top edge and bottom edge
5 of the first and second regions.

1 3. The apparatus of claim 2, wherein the first and second
2 flanges include a top edge and a bottom edge, wherein the distance
3 between the top edge and bottom edge of the first and second flanges is
4 less than the distance between the top edge and bottom edge of the first
5 and second regions.

1 4. The apparatus of claim 3, wherein the output region includes
2 an opening.

1 5. The apparatus of claim 4, wherein the opening is rectangular.

1 6. The apparatus of claim 5, wherein the distance between the
2 first and second flanges of the extension is less than 16 inches.

1 7. The apparatus of claim 6, wherein the front panel includes an
2 access door movable relative to the front panel to provide access to a
3 region between the front panel and rear panel.

1 8. The apparatus of claim 7, wherein at least one louver is
2 movable to provide access to a region between the front panel and rear
3 panel.

1 9. An evaporative cooler comprising;
2 a housing including a front panel and an opposing rear panel
3 configured to be attached to a building structure, the rear panel having a
4 region extending inwardly into the building structure; the housing further
5 including a first and second side extending between the front and rear
6 panels, the front panel having an exposed surface area that is
7 substantially uninterrupted to prevent air from entering there through;
8 a blower located at least partially within the rear panel region
9 extending inwardly into the building structure;
10 a first and second evaporative media pad proximate the first
11 and second sides of the housing respectively;
12 a water distribution system including a water pump
13 configured to pump water to at least one nozzle located above the media
14 pads to permit water to flow downwards through the pads.

1 10. The apparatus of claim 9, wherein the media pads are rigid
2 media pads.

1 11. The apparatus of claim 10, wherein the region extending
2 inwardly into the building structure includes an opening.

1 12. The apparatus of claim 11, wherein the opening is
2 rectangular.

1 13. The apparatus of claim 12, wherein the extension includes a
2 pair of vertically extending flanges that are less than 14.5 inches apart.

1 14. The apparatus of claim 13, further including an access door
2 movable relative to the front panel to provide access to a region between
3 the front panel and rear panel.

1 15. The apparatus of claim 14, further including a first and
2 second louver positioned proximate the first and second sides of the
3 housing.

1 16. A method for installing an evaporative cooler onto a wall of a
2 building structure, the method comprising:

3 providing an evaporative cooler having a front panel and a
4 rear panel including an extension extending therefrom;

5 placing the extension of the evaporative cooler at least
6 partially into an opening in the wall between standard spaced studs;

7 placing a portion of the rear panel adjacent the outer wall of
8 the building structure; and

9 securing the rear panel directly to the wall of the building
10 structure.

1 17. The method of claim 16, wherein placing the extension at
2 least partially into an opening in the wall includes placing the extension
3 into an opening having a height that is greater than its width.

1 18. The method of claim 17, wherein the opening is between two
2 studs sixteen inch on center.

1 19. The method of claim 18, wherein the opening is rectangular.

1 20. The method of claim 19, wherein the extension includes a
2 pair of vertically extending flanges that are less than 14.5 inches apart.

1 21. The method of claim 16, wherein providing an evaporative
2 cooler includes providing the front panel with a substantially uninterrupted
3 area; and providing an air inlet in the right and left sides intermediate the
4 front and rear panels, and further providing a rigid media proximate each
5 of the right and left sides.

1 22. The method of claim 21, wherein providing an evaporative
2 cooler further includes providing a first blower having at least one inlet
3 facing one of the right and left sides.

1 23. The method of claim 22, wherein providing an evaporative
2 cooler further includes providing a second blower having at least one inlet
3 facing the other of the right and left sides.

1 24. The method of claim 23, wherein the first and second
2 blowers are located one on top of the other and each blower includes two
3 inlets facing the right and left sides respectively.